



• **Building Intelligence Group Srl** •  
Consulenze Informatiche Domotica Building Automation  
Via Langhe 126/A – 12060 Magliano Alpi (CN)  
Tel: 0174 196 8037 - [info@big srl.it](mailto:info@big srl.it)

# INDEX

- ❑ LICENCE CATALOG.....2
- ❑ COMPATIBILITY.....3
- ❑ SOFTWARE AND GATEWAYS.....4
- ❑ YOUR BIGSTUDIO.....5
- ❑ MONITORING AND SECURITY.....8
- ❑ REPORTS.....9
- ❑ OUR PORTFOLIO.....10
- ❑ **HOTEL AUTOMATION.....12**
- ❑ EXPLORE GATEWAYS.....22
- ❑ ABOUT US.....26

# BIGSTUDIO

our store

our store



## ACCESS

Universal Access Control Software Platform.



## BUILDING

Energy accounting Software platform



## HOTEL

Software platform for the complete management of technologies in the Hospitality sector.



## BUILDING & ENERGY

Software platform for complete Building Automation Management.

BIGSTUDIO IS A **B**UILDING **M**ANAGEMENT **S**YSTEM  
DEVELOPED IN ITALY AND A LEADER IN THE BUILDING AND  
HOTEL AUTOMATION. SALES IN NATIVE VERSION AND IN  
OEM VERSIONS FOR THE MAIN LEADERS OF THE SECTOR.

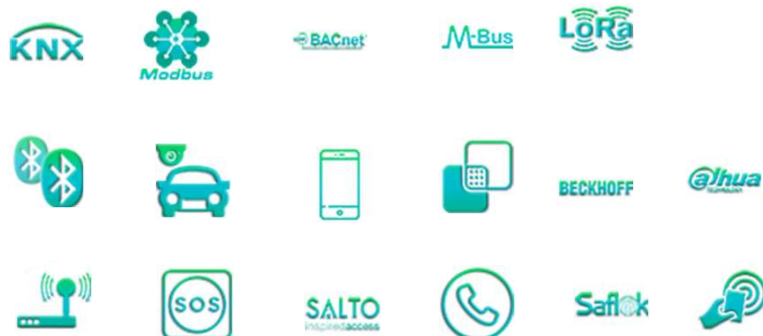
THE INNOVATIVE BUILDING MANAGEMENT SYSTEM FOR THE  
MANAGEMENT OF INTEGRATED SYSTEMS.  
PERFECT FOR EVERY KIND OF SYSTEMS

# BUILDING MANAGEMENT SYSTEM

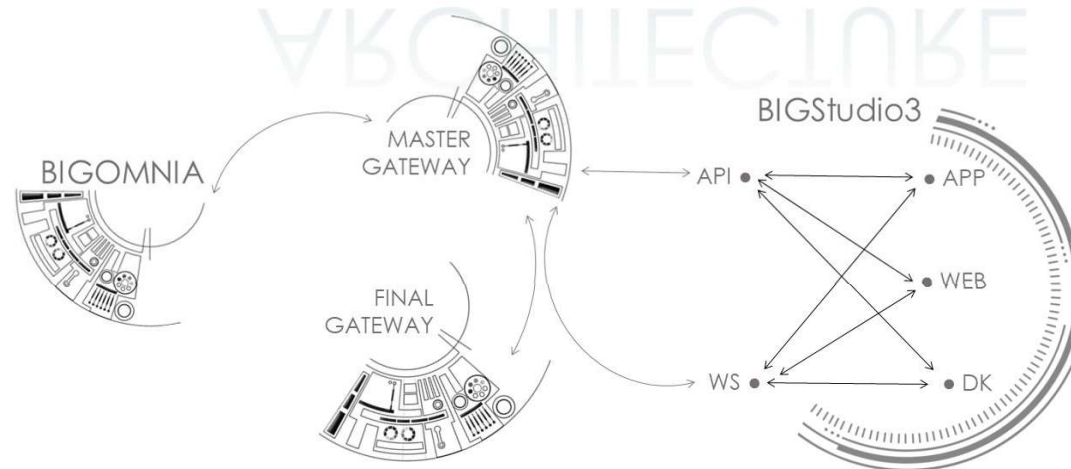
BIGStudio is available in the following  
modes:

- ☐ Software for **Windows**
- ☐ Web software **HTML5**
- ☐ Certified app for **Android** available on  
Play Store
- ☐ App certified for **IOS** available on  
Apple Store

## BIGStudio Gateways\*



# SOFTWARE ARCHITECTURE



Find out more..  
Pag.19



We design systems based on the **EN15232** standard, the European reference standard for **energy saving systems** through building automation.

BIGStudio is the innovative BMS for the management of integrated systems.

Perfect for every kind of System

# Make your BIGStudio



## ACCESS

Technologies requests  
How many environments?  
PMS software integration



## BUILDING

Technologies requests  
Addresses  
Interfacing with proprietary  
protocols



## HOTEL

Technologies requests  
How many environments?  
PMS software integration

## Customizations e integrations



## BUILDING & ENERGY

Technologies requests  
Addresses  
Interfacing with proprietary  
protocols

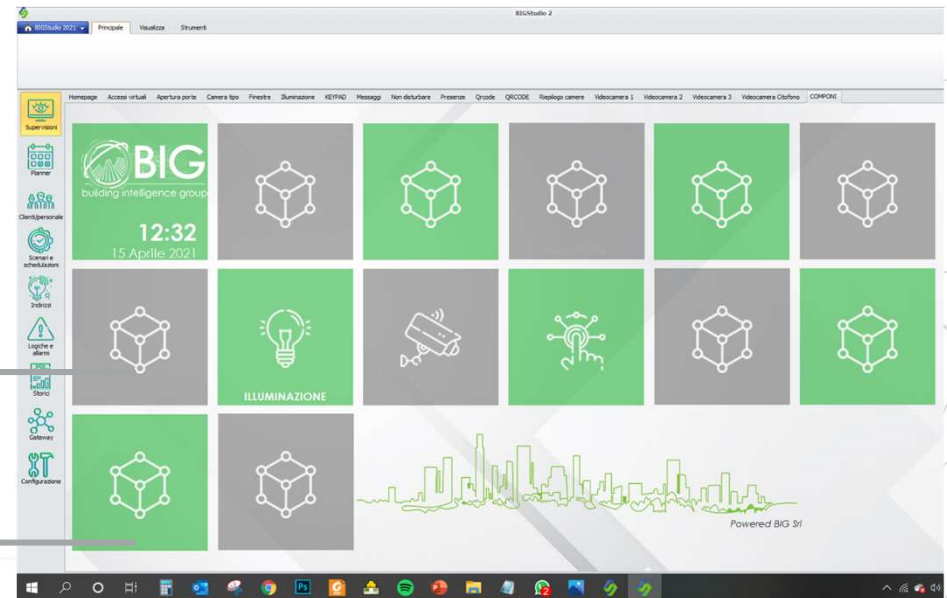
# CUSTOMER SUPERVISION

Every kind of building can be managed with solid and friendly software for intuitive remote control, for a more pleasant stay for your guests or to save money and make the workplace easier.

THE CONCEPT OF THE GRAPHIC PAGE ALLOWS YOU TO DIVIDE THE FUNCTIONS BY DESIRED DISPLAY GROUPS.



## Screenshot of standard BIGStudio supervision



- ☐ environment monitoring
- ☐ commands and scenarios
- ☐ value and consumption
- ☐ states and alarms
- ☐ marketing purpose



# BIGStudio App

**WITH BIGSTUDIO THE ONLY  
LIMIT IS YOUR IMAGINATION.**

From today, through the virtual access control it is possible to access a structure via your smartphone. The permissions for using the App and the graphics are fully customizable and able to meet the needs of any customer.

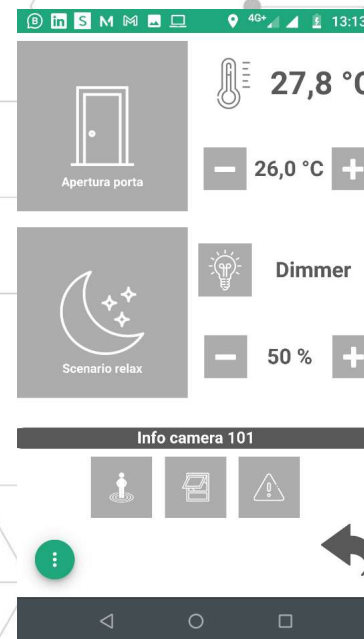
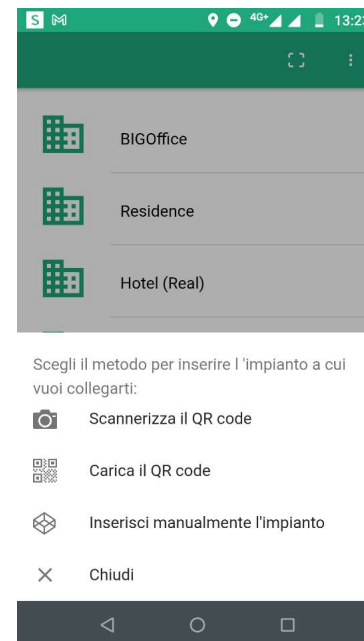
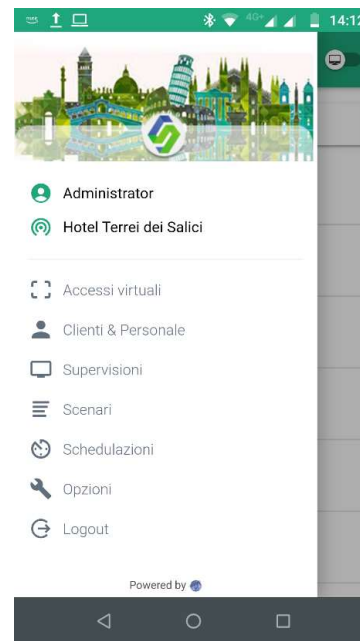
## **MONITOR YOUR CONSUMPTION ...**

The App allows you to view graphs relating to the energy consumption of your structure.

## **FOR HOSPITALITY ...**

Guests can manage their room automation automatically with the same QR Code, while hoteliers and maintenance staff can have full control of their structure.

## Screenshots of BIGStudio App



# MONITORING & SAFETY

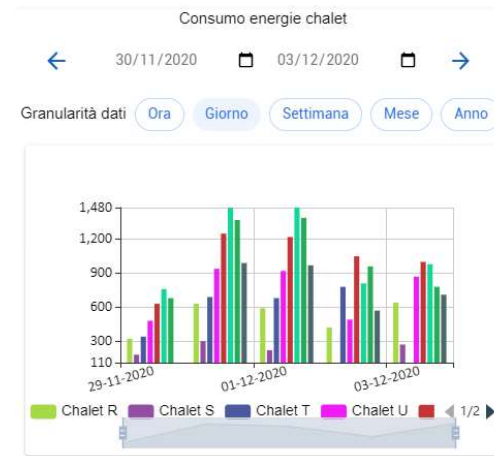
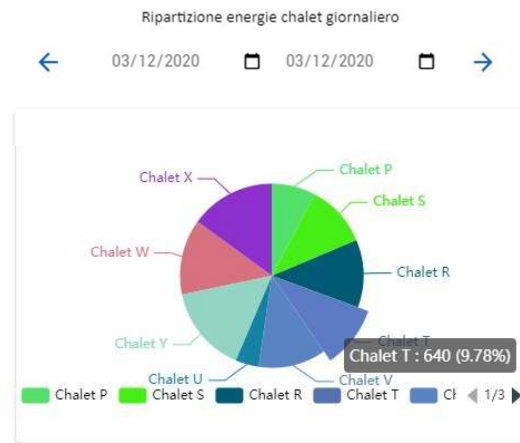
BIGStudio can automate sensible processes, this allows robust and high level advantages in terms of security, monitor and reporting capabilities of accesses and data, this allows the control of sensible processes like fire detection and security systems.

A powerful software that allows the total control of building.

## PRINCIPAL TREND

- PLATE RECOGNITION
- ACCESS CONTROL AND TRUE PRESENCE MANAGEMENT
- DIGITAL TVCC
- ALARM MANAGEMENT

Chalet energy distribution displayed by the BIGStudio App





Data	Ingresso	Uscita	Durata	Risultato	Numero - Descrizione breve	Descrizione	Dispositivo Ingresso	Dispositivo Uscita	Codice chiave	ID chiave	Proprietario
23/07/2020	18:07	18:08	1m 20s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	54110	1	Compagnoni Fideale
23/07/2020	14:52	19:12	4h 20m 40s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	38914	1	Borisani Fideale
23/07/2020	14:52	19:12	4h 20m 40s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	5276	1	Borisani Fideale
23/07/2020	14:25	17:06	2h 41m 30s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	1651	1	Borisani Fideale
23/07/2020									54110	1	Compagnoni Fideale
23/07/2020									44233	1	Cusani Andrea
23/07/2020									17381	1	Borisani Fideale
23/07/2020									6953	1	Rodighiero Vincenzo
23/07/2020									53552	1	Visconti Livia
23/07/2020									12255	1	Busioli Sergio
23/07/2020									43666	1	Rodighiero Fideale
23/07/2020									5203	1	Busioli Sergio
23/07/2020									2008	1	Borisani Fideale
23/07/2020									20169	1	Borisani Fideale
23/07/2020									59137	1	Marcolini Andrea
23/07/2020									34952	1	Rodighiero Fideale
23/07/2020									40908	1	Lucia Fideale
23/07/2020									15787	1	Borisani Fideale
23/07/2020									54110	1	Compagnoni Fideale
23/07/2020									20447	1	Paronazzo Fideale
23/07/2020									36853	1	Busioli Sergio
23/07/2020									51722	1	Visconti Livia
23/07/2020									65408	1	Compagnoni Fideale
23/07/2020	08:02	12:41	4h 39m 0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	54110	1	Compagnoni Fideale
23/07/2020	07:58	12:34	4h 36m 0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	17381	1	Compagnoni Fideale
23/07/2020	07:57	12:01	4h 3m 0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	44233	1	Cusani Andrea
23/07/2020	07:56	16:04	8h 8m 0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	64780	1	Visconti Livia
23/07/2020									44956	1	Busioli Sergio
23/07/2020									1651	1	Borisani Fideale
23/07/2020									38914	1	Borisani Fideale
23/07/2020									14106	1	Compagnoni Fideale
23/07/2020									38794	1	Busioli Sergio
23/07/2020									65408	1	Compagnoni Fideale
23/07/2020									16026	1	Compagnoni Fideale
23/07/2020									14106	1	Compagnoni Fideale
23/07/2020									54057	1	Busioli Sergio
23/07/2020									11172	1	Busioli Sergio
23/07/2020									22523	1	Compagnoni Fideale
23/07/2020									6953	1	Rodighiero Vincenzo
23/07/2020									39447	1	Borisani Fideale
23/07/2020									5276	1	Borisani Fideale
23/07/2020									53553	1	Rodighiero Vincenzo
23/07/2020									8337	1	Visconti Livia
23/07/2020	06:28		0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	61717	1	Borisani Fideale
23/07/2020	06:26	16:03	9h 37m 40s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	39446	1	Borisani Fideale
23/07/2020	06:06	06:06	0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	61731	1	Rodighiero Vincenzo
23/07/2020	05:54	12:08	7h 13m 0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	21109	1	Borisani Fideale
23/07/2020	05:33	14:15	8h 42m 40s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	964	1	Cusani Andrea
23/07/2020	05:28	13:11	7h 42m 50s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	13461	1	Rodighiero Vincenzo
23/07/2020	05:24	12:43	7h 19m 20s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	53552	1	Visconti Livia
23/07/2020	12:45	08:50	2h 46m 40s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	966	1	Borisani Fideale
23/07/2020	16:16		0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	36533	1	Compagnoni Fideale
23/07/2020	13:52	19:12	5h 20m 20s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	38914	1	Borisani Fideale
23/07/2020	14:49	19:13	4h 23m 20s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	5276	1	Borisani Fideale
23/07/2020	14:24	08:50	4h 26m 0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	966	1	Borisani Fideale
23/07/2020	14:24	17:10	2h 46m 10s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	1651	1	Borisani Fideale
23/07/2020	14:14		0s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	8379	1	Borisani Fideale
23/07/2020	14:01	17:11	3h 10m 40s	✓	Ingresso principale	Ingresso principale	Lettore Ingresso Principale	Lettore Uscita Dipendenti	6953	1	Rodighiero Vincenzo

Screenshot of report Xml.  
generate by  
BIGStudio:

- Accesses performed and length of stay.
- Costs and consumption

+ COMFORT  
- WASTE

With BIGStudio it's possible to optimize the power consumption and monitor energy and management costs of a building. With Scenes, schedules and logics it's possible to increase efficiency of systems



Entità di pagamento	Alloggio 316							
Periodo	dal	01/07/2020	al	22/07/2020				
Descrizione	Valore iniziale	Valore finale	N. Impulsi/ Differenza	Millesimi	%	Costo unitario	% Sconti	Totale [€]
Energia elettrica (Progressivo)	2569 30/06/2020 23:41:16	2677 22/07/2020 23:40:30	108 kW.h	1.000,00	100,00	0,21000000	0,00 0,00 0,00	22,68 €
Raffrescamento (Progressivo)	3414 30/06/2020 09:04:13	3731 22/07/2020 09:04:13	317 kW.h	1.000,00	100,00	0,08680000	0,00 0,00 0,00	27,52 €
AFS (Progressivo)	145750 30/06/2020 09:04:13	147550 22/07/2020 09:04:13	1800 L	1.000,00	100,00	0,00180000	0,00 0,00 0,00	3,24 €
ACS (Progressivo)	60740 30/06/2020 09:04:13	61330 22/07/2020 09:04:13	590 L	1.000,00	100,00	0,00648000	0,00 0,00 0,00	3,82 €
Riscaldamento (Progressivo)	2097 30/06/2020 09:04:13	2097 22/07/2020 09:04:13	0 kW.h	1.000,00	100,00	0,06500000	0,00 0,00 0,00	0,00 €
Totale Alloggio 316								57,26 €
Totale								57,26 €

INDUSTRY 4.0

- INTEGRATED SYSTEMS FOR LIGHTING AND HVAC
- MONITORING AND ACCOUNTING OF COSTS
- ELECTRONIC MONEY



# our PORTFOLIO

WE INCLUDE MORE THAN 1000 BUILDING AUTOMATION SYSTEMS IN OUR COMPANY CAREER.

THIS PORTFOLIO INCLUDES SOME OF THE MAIN PERSONALLY MADE PRODUCTS TO WHICH WE ARE PARTICULARLY CARE OR WHICH HAVE BEEN IMPORTANT FOR OUR PROFESSIONAL GROWTH.

PROGETTI REALIZZATI  
DAL 2006



- ❑ Universal access control
- ❑ Lighting and curtains
- ❑ Thermoregulation
- ❑ Supervision of refrigerate rooms
- ❑ Alarm reporting management
- ❑ Integration of PMS system for Hotel:  
**Slope, Ericsoft, Hotel Cube, Solution G Holidays, Compatible with FIAS**
- ❑ Accounting and energy efficiency
- ❑ Customer service: Service Provider Vimar and Schneider Electric.
- ❑ Schneider Electric **EcoExpert partner**
- ❑ Supervision with other systems:  
**Crestron, Lutron, Schneider Ecostruxure, Desigo.**
- ❑ Integration with security systems:  
**Tecnoalarm**



# HOTEL AUTOMATION

## INDEX

❑ DEVICES FOR THE ROOMS .....	14
❑ AN INTELLIGENT HOTEL .....	16
❑ INTEGRATED MANAGEMENT SYSTEMS....	17
❑ DIFFUSED HOTEL.....	18
❑ VIRTUAL ACCESS CONTROL .....	19

# OUR SOLUTION IT'S MADE TO MEASURE FOR YOU

“Thanks to decades of experience in the Building automation sector, we have a great knowledge of the devices available on the market and we know how to choose the best for your project.”

## BEFORE, WHILE AND AFTER

A flexible software platform adapts to the design characteristics of the structure, and accompanies it in its **growth and evolution**

We are structured to offer the best after-sales service, we have assistance contracts designed specifically for Hospitality sectors.

## WHY ARE WE DIFFERENT?

BIGStudio is recognized as a universal platform of multiple technologies, a complete software solution chosen and distributed also by the main manufacturers worldwide



## OUR PARTNERS





# DEVICES FOR THE ROOMS

BOOW?

SMOKE SENSOR ALARMS  
MANAGEMENT

LIGHTING  
& SCENARIOS

SOS  
BATHROOM

ACCESS  
CONTROL

INTERFACE  
CONDITIONERS

WINDOWS  
CONTACT

BLINDS/SHUTTERS  
MOTORIZATION

PRESENCE  
DETECTORS

THERMOSTAT/  
WALL  
TOUCHSCREEN

Our systems can not only reduce management costs but also guarantee a superior experience for the guests of your structure.

# A wide choice of devices that adapt perfectly to the multiple needs of our customers

## OPENING DOORS

- ☐ Touchscreen
- ☐ Smartphone (App)
- ☐ SMS / Call
- ☐ Videophone
- ☐ Keypad
- ☐ Card reader

## ON/OFF ROOM

- ☐ Card holder
- ☐ True presence detector

## SOS BATHROOM

- ☐ Alarms and notifications

## TOUCHSCREEN

## THERMOREGULATION

- ☐ Thermostat + Blind bathroom probe
- ☐ 2, 3 or 4 Pipe Fancoil System
- ☐ Interface for air conditioners
- ☐ Management of all types of cooling and heating

## WINDOWS CONTACT

- ☐ Wire solutions
- ☐ Wireless solutions

## LIGHTING AND BLINDS

- ☐ Courtesy light
- ☐ Pushbuttons
- ☐ Custom scenarios
- ☐ Motorized blinds

## ENERGY ACCOUNTING

- ☐ Electric energy
- ☐ Domestic hot water
- ☐ Hours of operation

## AUDIO & VIDEO

- ☐ TV Hospitality

## ELECTRONIC MONEY

## COMMON AREAS MANAGEMENT

- ☐ Conference rooms
- ☐ Spa
- ☐ Gym





## TECHNOLOGICAL SYSTEM

*Managed and provided by BIG*

BIGStudio manages all the automation processes of the facility. Lighting, thermoregulation, consumption monitoring, key management, alarm and notification management, interfacing with other systems.

## MANAGEMENT SYSTEM

*Supplied by other, **integrated by BIG***

*Based on the functionality of your management software, it will be able to manage reservations and payments, visibility on Web platforms, rate calculation, online check-in, sending accommodation ticket, management of planning staff, House Keeping and much more.*

## DIGITAL CONCIERGE

*Supplied by other, **integrated by BIG***

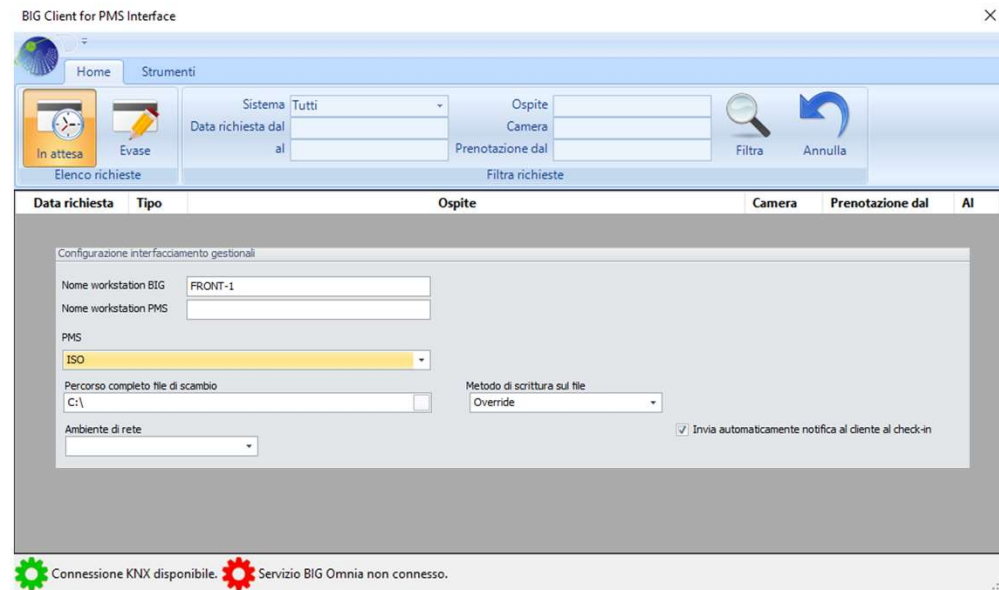
The last step for a complete service, for example, is the integration with lifts, **TV Hospitality**, **Info points** and much more.

# INTEGRATED SYSTEM

# INTEGRATION WITH MANAGEMENT SYSTEMS FOR HOTELS (PMS)

## ALREADY INTEGRATED SOFTWARE PLATFORMS

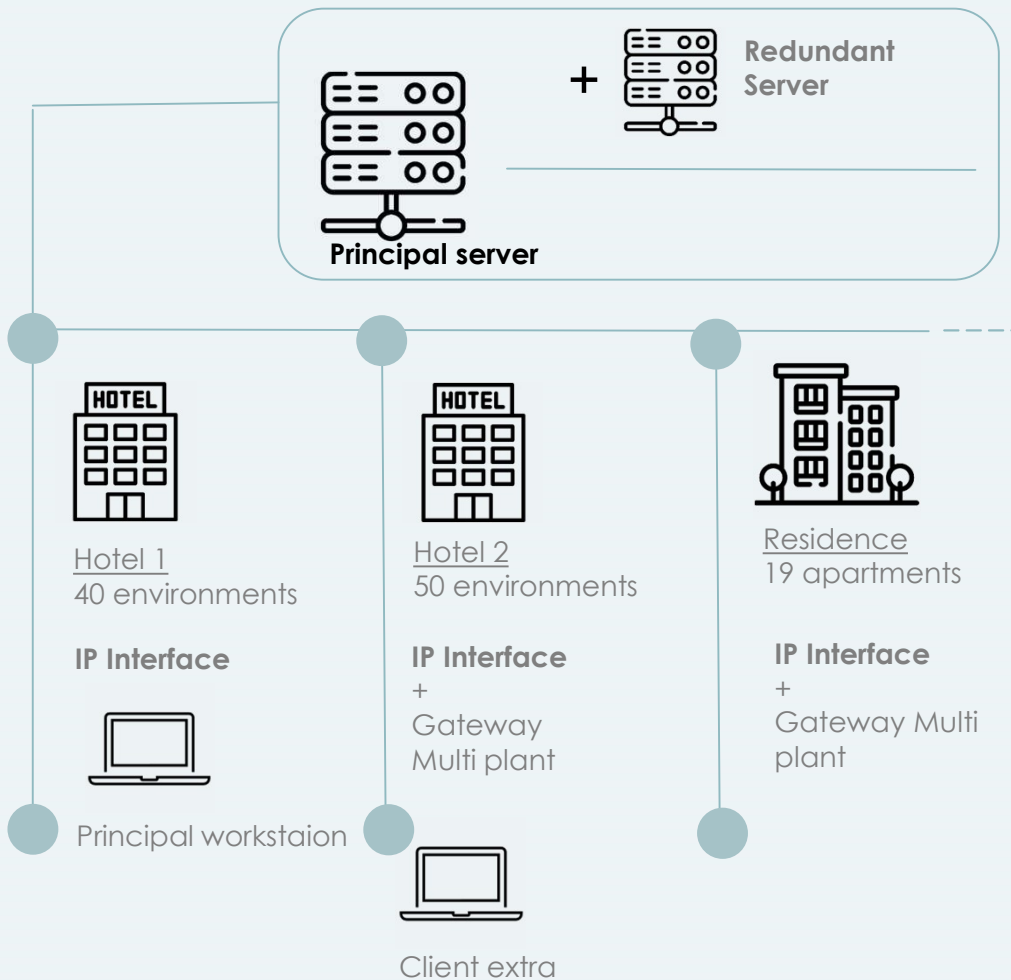
- ☐ Slope
- ☐ Hotel Cube (Proxima)
- ☐ Ericsoft
- ☐ Solution G Holidays
- ☐ Compatibili con il protocollo FIAS
- ☐ ZAK (WuBook)



Depending on the level of integration between the technological system and the management system, it is possible to receive all or some of the information necessary for check-in.

# DIFFUSED HOTEL

## Architecture example



BIGStudio can supervise multiple structures located between them from a single software interface.

## NETWORK REQUIREMENTS

The entire system resides within a single VPN.

The supervision of the structures can be achieved remotely via the Web platform.

The necessary system requirements are remote reachability via a public IP address.

Attention:  
In the configuration of the diffused hotel, there is only one server with full autonomy installed in the network.

# VIRTUAL ACCESS CONTROL

## Screenshot of Homepage Touchscreen 7"



Touchscreen for access control in the following ways:

- ☐ QRCode reader
- ☐ Numeric keypad
- ☐ RFID card

# CUSTOMIZED SUPERVISION

Your company logo

Your access type



*BENVENUTO, PRESENTARE IL TUO QR CODE*  
*WELCOME, PRESENT YOUR QR CODE*  
*WILLKOMMEN, SENDEN SIE IHREN QR CODE*



Powered by BIG Srl



EXAMPLE OF ACCESS  
CONTROL WITH QR CODE FOR  
HOTEL



# OUR GATEWAYS IN DETAIL ...

DETAIL ...





**KNX** –It's the main international standard for building automation, compliant to EN50090. Offers a wide series of devices due to the global distribution. Inside BIGStudio it's possible to import automatically in the ETS project all certified devices with their configuration.



❑ **Mbus** – Meter bus is a Europe standard EN13575-2, EN13575-3 for remote reading of energy meters like electric, heating, gas or others. BIGStudio can connect to a meter bus master and read remote readers with freely customizable frequency and mode.



**Modbus** – Modbus is a communication standard birth in 1979 from Modicon (today Schneider Electric) to control PLCs (programmable logic controller) used until today for its simplicity and versatility to control HVAC systems , automations and energy monitoring.

BIGStudio can act as modbus master for RS485 (RTU, ASCII) and Ethernet devices.



**Bacnet** – Bacnet is a communication protocol ISO 16484-5 that allow communication and control for applications like heating, ventilation, cooling, lighting, access control and security. Bacnet allows standardized communication and data exchange between different devices. BigStudio allows the management and monitoring of main bacnet standard data types.



**LoRa** – (Long Range) is a wireless communication protocol with low electronic cost and low energy consumption, that can reach long distances, used mainly for Smart cities. BIGStudio allows management, monitoring and control of Lora devices using supported Lora gateways.



❑ **Intesis WMP** – is a communication ASCII based protocol used to control HVAC systems via Wifi. With WMP it's possible to monitor and control a wide series where it's possible to have Wifi network available.





- ❑ **Bluetooth** – Allows communication and control with BLE (Bluetooth Low Energy). It's possible to use BLE for geolocalization and access control with BIGStudio.

**SALTO**  
inspiredaccess

**Salto** – Spanish international company leader in wireless access control systems.

**Saflok** – Wireless access control system of Group DormoKaba, Swiss company in the market since 50's.

**Saflok**  
A Member of the Kaba Group

These proprietary protocols are widely used in the hotel automation systems and offers to BIGStudio an alternative for wireless access control.

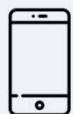


- ❑ **Wiegand** – It's a de facto standard for access control systems, used to communicate with a wide variety of products. BIGStudio can read Wiegand codes with specific gateways. BIGStudio allows the generation of specific Wiegand codes with the interface BIGWieg.



- ❑ **Telegram** - BIGStudio implements the function of Telegram Bot. This bot is used to notify alarms to a specific number and type of recipients. It's also possible to send command and scenes directly from Telegram.

**GSM**



- ❑ **GSM** – Allows the integration of GSM modems with AT&T commands. With BIGStudio it's possible to call, send SMS, receive notifications with calls and SMSs with an unified software communication. With this gateway it's also possible to realize a complete access control based on smartphones

**SOS**



- ❑ **ESPA 444** – Serial protocol used by some security systems to notify alarms and events on pagers, this kind of systems is largely used in hospital call systems.



❑ **PBX**– Allows phone calls and notifications with SIP protocol.



❑ **Virtual accesses** – This gateway allows the management of access control in many ways using multimedia devices like Touchscreen, Tablet, Smartphones or PCs.



❑ **API** –(Application Programming Interface) Allow data exchange between BIGStudio and other software systems that implement specific functions.



❑ **Mikrotik**– Network protocol that allow data exchange between Mikrotik networking products and BIGstudio. In this way it's possible to configure and manage network directly inside BIGStudio.



**Dahua**– Chinese based worldwide company leader in security systems, TVCC and access control systems.

BIGStudio integrate Dahua access control devices and also Termoscanners for Face detection and face recognition.



❑ **Beckhoff ADS** – (Automation Device Specification) Allows a simplified and standardized communication protocol between Beckhoff PLCs or couplers.



**Plate Recognizer** - Allows faceplate recognition, integrated in BIGStudio, reading an ip standard video stream.



# INTELLIGENCE IS BIG ABOUT US

SINCE 2006 BIG S.R.L. IT IS ONE OF THE MAIN ITALIAN COMPANIES THAT DESIGN TECHNOLOGICAL SYSTEMS FOR HIGH ENERGY EFFICIENCY BUILDINGS. WE ARE ABLE TO OFFER A CARNET OF TECHNICAL SOLUTIONS COSTUMIZED FOR THE CUSTOMER'S NEEDS.



# our TEAM

OUR COMPANY IS DIVIDED INTO 3 COMPARTMENTS. A TEAM OF PROFESSIONALS ABLE TO BRING SOLUTIONS TO THE MARKET THAT MEET THE CUSTOMER'S NEEDS.



DEVELOPERS



SYSTEM



INNOVATORS

INTEGRATOR



# BUILDING INTELLIGENCE GROUP

*Our sectors*

*Our sectors*

**SOFTWARE HOUSE**

**HOTEL AUTOMATION**

**SYSTEM INTEGRATOR**

**FOOD & BEVERAGE**

**BUILDING AUTOMATION**

**HOME AUTOMATION**

**DISABILITY**

**KNX TRAINING CENTER**

**DIGITAL MEDIA**

**SAFETY &  
NETWORKING**

**LIGHTING  
& DESIGN**

**ENERGY SAVING**



building intelligence group



• Building Intelligence Group Srl •

Consulenze Informatiche Domotica Building Automation

Via Langhe 126/A – 12060 Magliano Alpi (CN)

Tel: 0174 196 8037 - [info@big srl](mailto:info@big srl)